

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/603,914	06/24/2003	Hong-Da Liu	03166-UPS	4334	
	33804	7590 02/10/2	005	EXAM	EXAMINER	
		PATENT SERVIC	CES	TON, MIN	TON, MINH TOAN T	
	POST OFFIC			ART UNIT	PAPER NUMBER	
	SARATOGA,	, CA 93070		2871		

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/603,914	LIU, HONG-DA			
		Examiner	Art Unit			
		Toan Ton	2871			
Period for	The MAILING DATE of this communication app Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply wilthin the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)∏	Responsive to communication(s) filed on	•				
•	•	action is non-final.				
3)□ ;						
Disposition	on of Claims					
 4) Claim(s) 1-39 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-39 are subject to restriction and/or election requirement. 						
Application	on Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	(s)	_				
	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summa Paper No(s)/Mail				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		Patent Application (PTO-152)			

Page 2

Application/Control Number: 10/603,914

Art Unit: 2871

* This is a modified election/restriction requirement requiring Applicant to further elect subspecies directing to an embodiment that corresponds to claims 36-37 or claims 38-39.

Election/Restrictions

- 1. The application comprises a plurality of disclosed patentably distinct species comprising:
- (1) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (1st embodiment, Figure 2);
- (2) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (2nd embodiment, Figures 3a-3b and 5); [here, Applicant has elected claims 21-23, 25-26, 28, 30-33]
- (3) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (3rd embodiment, Figure 4);
- (4) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (4th embodiment, Figures 6 and 18);
- (5) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (5th embodiment, Figures 7 and 19);
- (6) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (6th embodiment, Figure 8);
- (7) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (7th embodiment, Figures 9 and 17);
- (8) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (8th embodiment, Figure 10);

Application/Control Number: 10/603,914

Art Unit: 2871

(9) the specifics of the device being comprised of a particular reflector structure in a liquid crystal display having light condensing effect (9th embodiment, Figure 11);

- (10) the specifics of the device being comprised of a particular condenser having diffraction or refraction effect (an embodiment directing to Figure 16a)
- (11) the specifics of the device being comprised of a particular condenser having diffraction or refraction effect (an embodiment directing to Figure 16b)
- (12) the specifics of the device being comprised of a particular condenser having diffraction or refraction effect (an embodiment directing to Figure 16c)
- (13) the specifics of the device being comprised of a particular condenser having diffraction or refraction effect (an embodiment directing to Figure 16d)
- (14) the specifics of the device being comprised of a particular condenser having diffraction or refraction effect (an embodiment directing to Figure 16e)
- 2. If any one of the elected species is elected above, a further election of one of the following patentally distinct species is required:
- (a) the specifics of the device being comprised of liquid crystal cells in the liquid crystal layer are positive liquid crystals with particular characteristics (an embodiment directing to claims 33/1st alternative, 36-37);
- (b)) the specifics of the device being comprised of liquid crystal cells in the liquid crystal layer are negative liquid crystals with particular characteristics (an embodiment directing to claims 33/2nd alternative, 38-39).

Application/Control Number: 10/603,914

Art Unit: 2871

3. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though

this requirement is traversed.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the

examiner finds one of the inventions unpatentable over the prior art, the evidence or admission

may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Contact Information

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Toan Ton whose telephone number is (571) 272-2303.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 4, 2005

TOANTON
PRIMARY EXAMINER